

LISTING OF CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

1. (Previously Presented) A distributed medical diagnostic imaging system, comprising:

a system manager generating, based on a system configuration file, function commands for at least one function from a set of functions including at least one of system boot, system reset, system shutdown, power failure, and error handling, said system configuration file including information regarding a number of subsystems in said system and levels within each of said at least one function which each of said subsystems participate;

a subsystem capable of performing at least one function from said set of functions, said subsystem including at least one task operator capable of executing at least one task associated with each function performed by said subsystem; and

a subsystem manager receiving said function commands and in response thereto providing, based on a subsystem configuration file, task instructions to said task operator concerning said at least one function, said task operator supplying task results regarding completion or failure of each of said task instructions to said subsystem manager, said subsystem manager transmitting function results regarding completion or failure of each of said function commands to said system manager based on said task results, said subsystem configuration file including a number of task operators in said subsystem and levels of operation within each of said at least one function in which said subsystem and said task operators participate.

2. (Original) The distributed medical diagnostic imaging system of claim 1, further comprising a plurality of subsystems and an equal plurality of subsystem managers.

3. (Original) The distributed medical diagnostic imaging system of claim 1, further comprising a plurality of subsystems connected to said system manager through a common communications channel.

4. (Original) The distributed medical diagnostic imaging system of claim 1, wherein said set of functions include at least one level.

5. (Original) The distributed medical diagnostic imaging system of claim 1, wherein said set of functions include at least one phase.

6. Previously Presented) The distributed medical diagnostic imaging system of claim 1, wherein said system manager and said subsystem manager constitute state machines.

7. (Original) The distributed medical diagnostic imaging system of claim 1, wherein, when a failure occurs in a subsystem, said task operator generates data indicative of a level in a function at which said failure occurred.

8. (Original) The distributed medical diagnostic imaging system of claim 1, wherein, when a failure occurs in a subsystem, said task operator generates data indicative of a phase in a function at which said failure occurred.

9. (Original) The distributed medical diagnostic imaging system of claim 1, wherein, when a failure occurs in a subsystem, said subsystem manager generates data indicative of the subsystem at which said failure occurred.

10. (Original) The distributed medical diagnostic imaging system of claim 1, wherein, when a failure occurs in a task operator, said subsystem manager generates data indicative of the task operator at which said failure occurred.

11. (Currently Amended) A method for managing a distributed medical diagnostic imaging system, said method comprising:

transmitting, based on a configuration file including information regarding a number of subsystems in said system and levels within at least one function in which each of

said subsystems participate, a function command from a system manager to a subsystem manager for a subsystem; and

relaying, based on said configuration file, said function command from said subsystem manager for said subsystem to a task operator for said subsystem, wherein said configuration file specifies levels within each of said at least one function in which said task operator participate.[[.]]

12. (Original) The method of claim 11, further comprising receiving notification of completion of said function command from said task operator at said subsystem manager.

13. (Original) The method of claim 11, further comprising receiving notification of completion of said function command from said subsystem manager at said system manager.

14. (Original) The method of claim 11, further comprising receiving an error message from said task operator at said subsystem manager.

15. (Original) The method of claim 11, further comprising receiving an error message from said subsystem manager at said system manager.

16. (Original) The method of claim 11, further comprising a plurality of subsystems and an equal plurality of subsystem managers.

17. (Original) The method of claim 11, further comprising a plurality of task operators.

18. (Original) The method of claim 11, wherein said function command comprises at least one of booting, resetting, shutdown, power failure, and error handling.

19. (Original) The method of claim 11, wherein said task operator executes at least one task, including at least one of booting, resetting, error handling, and shutting down said subsystem.

20. (Previously Presented) A method for locating errors in a medical diagnostic imaging system, said method comprising:

distributing control of said medical diagnostic imaging system among a plurality of hierarchical levels based on at least one configuration file, said plurality of hierarchical levels including a top level and a plurality of secondary levels;

transmitting system commands from said top level to said plurality of secondary levels based on said at least one configuration file, said at least one configuration file including information regarding a number of secondary levels in said plurality of hierarchical levels and levels for execution of said system commands;

flagging an error at at least one of said plurality of secondary levels; and

receiving notification at said top level from said plurality of secondary levels, said notification comprising status of said plurality of secondary levels including said error at said at least one of said plurality of secondary levels.

21-25. (Canceled).